

In the claims

1-80. (Canceled)

81. (Currently Amended) An aquaculturally-raised aquatic animal made by cultivating an aquatic animal with a feed, wherein the feed is vegetarian and comprises a combination of hydrolyzed plant protein and bacteria comprising a carotenoid; and microalgae comprising docosahexaenoic acid (DHA), wherein at least 1% by weight of the fat content of the feed is ~~omega 3 long chain polyunsaturated fatty acid (03-LC PUFA)~~ DHA derived from a non animal source, wherein the carotenoid is selected from the group consisting of lutein, zeaxanthin, and lycopene and derived from a source selected from the group consisting of marigold petals, Lycium Chinese Mill Berries, tomatoes, microalgae, diatoms, and bacteria, and wherein less than 50% of the total carotenoid content of the aquaculturally-raised aquatic animal is astaxanthin.

82. (Currently Amended) The animal of claim 81, wherein the ~~03-LC PUFA feed~~ comprises at least one of ~~docosahexaenoic acid (DHA)~~, eicosapentaenoic acid (EPA), and arachidonic acid (ARA).

83. (Currently Amended) The animal of ~~claim 81~~ claim 82, wherein ~~the 03-LC PUFA~~ comprises a ratio of DHA to EPA in the aquaculturally-raised aquatic animal is greater than 1:1.

84. - 89. (Cancelled)

90. (Original) The animal of claim 81, wherein the microalgae are selected from the group consisting of *Cryptocodinium*, *Schizochytrium*, *Thraustochytrium*, *Pavlova*, *Tetraselmis*, and *Isochrysis* species, and combinations of these.

91. (Original) The animal of claim 81, comprising at least 12 grams of DHA per kilogram of animal.

92. (Original) The animal of claim 81, being a crustacean.

93. (Original) The animal of claim 81, being a shrimp.

94. (Original) The shrimp of claim 93, comprising more than 3 milligrams DHA per gram dry weight of shrimp.
95. (Original) The animal of claim 81, being a fish.
96. (Original) The fish of claim 95, wherein more than about 5% of the total extractable fat of the fish is DHA.
97. (Original) The animal of claim 81, being a catfish.
98. (Original) The animal of claim 81, being a mollusk.
99. (Original) The mollusk of claim 98, wherein more than about 10% of the total extractable fat of the mollusk is DHA.
100. (Original) The mollusk of claim 98, being an abalone.
101. -102. (Cancelled)
103. (Currently amended) The animal of claim 81 ~~402~~, comprising at least about 60 milligrams lutein per kilogram of animal.
104. (Currently amended) The animal of claim 81 ~~402~~, comprising at least about 60 milligrams zeaxanthin per kilogram of animal.
105. – 106. (Cancelled)
107. (Currently amended) The animal of claim 81 ~~404~~, wherein the feed further comprises a phospholipid in an amount sufficient to enhance the bioavailability of the carotenoid.
108. (Original) The animal of claim 107, wherein the phospholipid is a phospholipid extracted from a marine algae.
109. (Original) The animal of claim 81, wherein the feed further comprises a taurine-containing

material.

110. (Original) The animal of claim 109, wherein the feed comprises at least 10 milligrams taurine per kilogram.

111. (Original) The animal of claim 81, wherein the animal has been cultivated with the feed for at least two weeks prior to harvest.

112.-114. (Cancelled)